



Exploration and Analysis of DNA Microarray and Other High-Dimensional Data (Wiley Series in Probability and Statistics)

By Dhammika Amaratunga, Javier Cabrera, Ziv Shkedy

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Praise for the *First Edition*

“...extremely well written...a comprehensive and up-to-date overview of this important field.” – *Journal of Environmental Quality*

Exploration and Analysis of DNA Microarray and Other High-Dimensional Data, Second Edition provides comprehensive coverage of recent advancements in microarray data analysis. A cutting-edge guide, the *Second Edition* demonstrates various methodologies for analyzing data in biomedical research and offers an overview of the modern techniques used in microarray technology to study patterns of gene activity.

The new edition answers the need for an efficient outline of all phases of this revolutionary analytical technique, from preprocessing to the analysis stage. Utilizing research and experience from highly-qualified authors in fields of data analysis, *Exploration and Analysis of DNA Microarray and Other High-Dimensional Data, Second Edition* features:

- A new chapter on the interpretation of findings that includes a discussion of signatures and material on gene set analysis, including network analysis
- New topics of coverage including ABC clustering, biclustering, partial least squares, penalized methods, ensemble methods, and enriched ensemble methods
- Updated exercises to deepen knowledge of the presented material and provide readers with resources for further study

The book is an ideal reference for scientists in biomedical and genomics research fields who analyze DNA microarrays and protein array data, as well as statisticians and bioinformatics practitioners. *Exploration and Analysis of DNA Microarray and Other High-Dimensional Data, Second Edition* is also a useful text for graduate-level courses on statistics, computational biology, and bioinformatics.

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Editorial Review

Review

“Featuring new information on interpretation of findings, class prediction, ABC clustering, limma for mixed models, biclustering, mass spectrometry, tracking Spearman correlations, and more, this extremely well written” (Journal of Environmental Quality) book is a choice reference for scientists, teachers, and students interested in DNA data analysis.” (*Zentralblatt MATH*, 1 October 2014)

“In summary this is an excellent text for both life scientist and computer/mathematicians. Highly recommended.” (*Scientific Computing*, 1 August 2014)

From the Back Cover

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DHAMMIKA AMARATUNGA, PhD, is Senior Director and Janssen Fellow in the Nonclinical Statistics and Computing Department at Janssen R&D, a Johnson & Johnson pharmaceutical company. His research interests include analysis of large multivariate data sets generated by functional genomics research, robust and resistant statistical methods, linear and nonlinear modeling, and biostatistics.

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